



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/039,836A

DATE: 05/09/2002
 TIME: 12:50:30

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\05092002\J039836A.raw

4 <110> APPLICANT: Crane, Virginia
 5 Simmons, Carl
 7 <120> TITLE OF INVENTION: Maize Proteinase Inhibitor-Like
 8 Polynucleotides and Methods of Use
 12 <130> FILE REFERENCE: 35718/239836
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/039,836A
C--> 14 <141> CURRENT FILING DATE: 2001-10-23
 14 <150> PRIOR APPLICATION NUMBER: 60/243,167
 15 <151> PRIOR FILING DATE: 2000-10-25
 17 <160> NUMBER OF SEQ ID NOS: 4
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 565
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Zea mays
 26 <220> FEATURE:
 27 <221> NAME/KEY: misc_feature
 28 <222> LOCATION: (0)...(0)
 29 <223> OTHER INFORMATION: Proteinase Inhibitor-Like cDNA
 31 <221> NAME/KEY: CDS
 32 <222> LOCATION: (60)...(353)
W--> 34 <400> 1
 35 gaccacacgctccgctggcc ttttcttaat tattgccagg acaggagaaa caaacaaag 59
 36 atg agg cct cag ctg ata ctc gtc ggc act ctg gct gtt ctc gcc atc 107
 37 Met Arg Pro Gln Leu Ile Leu Val Gly Thr Leu Ala Val Leu Ala Ile
 38 1 5 10 15
 40 ctc gca gct ctc ggc gaa ggc tcg tcg tcc tgg ccg tgc tgc aac aac 155
 41 Leu Ala Ala Leu Gly Glu Gly Ser Ser Trp Pro Cys Cys Asn Asn
 42 20 25 30
 44 tgc ggt gct tgc aac agg aag cag ccg cct gag tgc cag tgc aat gac 203
 45 Cys Gly Ala Cys Asn Arg Lys Gln Pro Pro Glu Cys Gln Cys Asn Asp
 46 35 40 45
 48 gtg tcg gtg aac ggg tgc cat ccg gag tgc atg aac tgc gtc aag gtc 251
 49 Val Ser Val Asn Gly Cys His Pro Glu Cys Met Asn Cys Val Lys Val
 50 50 55 60
 52 ggt gca gga att cgt ccc ggc atg ggc ccc ggc ccc gtc gtc acc tac 299
 53 Gly Ala Gly Ile Arg Pro Gly Met Gly Pro Gly Pro Val Val Thr Tyr
 54 65 70 75 80
 56 cgc tgt gat gac gtt ctc aca aac ttc tgc cag agc agc tgc ccg gag 347
 57 Arg Cys Asp Asp Val Leu Thr Asn Phe Cys Gln Ser Ser Cys Pro Glu
 58 85 90 95
 60 gcg tag ttgctgggtg gtgggtgtctt cttctgacgc catggacgc cagtacgcaa 403
 61 Ala *

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64 ccagtttgc tctctccagc ttctgtcagac aagaaataga taaataaaca aatgtcaccg 463
 65 gccgctctgt tcgggtcttg ctctgttcg tcgtcagaga agaaatagat aaataaataa 523
 66 ataaataaat aaatagccaa aaaaaaaaaa aaaaaaaaaa aa 565
 68 <210> SEQ ID NO: 2
 69 <211> LENGTH: 97
 70 <212> TYPE: PRT
 71 <213> ORGANISM: Zea mays
 73 <400> SEQUENCE: 2
 74 Met Arg Pro Gln Leu Ile Leu Val Gly Thr Leu Ala Val Leu Ala Ile
 75 1 5 10 15
 76 Leu Ala Ala Leu Gly Glu Gly Ser Ser Ser Trp Pro Cys Cys Asn Asn
 77 20 25 30
 78 Cys Gly Ala Cys Asn Arg Lys Gln Pro Pro Glu Cys Gln Cys Asn Asp
 79 35 40 45
 80 Val Ser Val Asn Gly Cys His Pro Glu Cys Met Asn Cys Val Lys Val
 81 50 55 60
 82 Gly Ala Gly Ile Arg Pro Gly Met Gly Pro Gly Pro Val Val Thr Tyr
 83 65 70 75 80
 84 Arg Cys Asp Asp Val Leu Thr Asn Phe Cys Gln Ser Ser Cys Pro Glu
 85 85 90 95
 86 Ala
 90 <210> SEQ ID NO: 3
 91 <211> LENGTH: 925
 92 <212> TYPE: DNA
 93 <213> ORGANISM: Zea mays
 95 <220> FEATURE:
 96 <221> NAME/KEY: misc_feature
 97 <222> LOCATION: (0)...(0)
 98 <223> OTHER INFORMATION: Proteinase Inhibitor-like promoter
 100 <400> SEQUENCE: 3
 101 actataaggcc acgcgtggc gacggccccg gctggtcgta tttgtgtcca aacattttga 60
 102 tgtatgggt cagccctta tacgattgcc ttacgttatg aatggctata atattggaaa 120
 103 cqacatcagc agtggaaagtc gctggcggtt gggttgcagc gtgtatacgt ggcattctagg 180
 104 tggccttgc tatccatgtt gtcgcactgt ttctacattt cattggcaga tatgtatgaa 240
 105 ctaaattatt ggccacttaa ggaggtgttt gaatgcaata aaactaatag ttagttggct 300
 106 aaaattgtta gtgaaattat ctatctaaca aatagctacc taactattaa ctaatttacc 360
 107 aaaaataact tatagttaaa ttatataagg tggctgtttt aatgtctcaa ctaatttttag 420
 108 ccactaaattt ttatctttatg tgcattcaaa catggcataa gtctacgttt gatttgagac 480
 109 qtagcatcg tgcgtacgga agaggaacca aaaggatttt ctttggaaat tttcatgcac 540
 110 qtggqccggcc tgcagacgga gatgagccacc gcgaaatcaa tctggataga tcgtcgctc 600
 111 gtcaatcatt gcggtgctga cggtctaattt ttcctgcaac cagcaacttggaa 660
 112 tctaggagga ttgtcaaaaa tatataatgc ttggcttcta cgtacgtacc tggtggccct 720
 113 qytggtcaaa gatgatctt aagaaaacat cctggatttt cctctttcat atattcatat 780
 114 tcaccgtcag tacgctgtta tgatttggct ttgtatttgc ttcttgcata agagatgaac 840
 115 qaaagtgc当地 ggaaggcctcc ctcgatcccc tcctctatat atatatac aagaagacct 900
 116 tagagccgca ggaaggaaat ctatc 925
 118 <210> SEQ ID NO: 4
 119 <211> LENGTH: 72
 120 <212> TYPE: DNA

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121 <213> ORGANISM: Artificial Sequence

123 <220> FEATURE:

124 <223> OTHER INFORMATION: oligonucleotide primer

126 <400> SEQUENCE: 4

127 ggccqctcga qtccaaagtc aggtcacagt gacctgatca aagttgtcca aagttaggtc 60

128 acagtgacct ga 72

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/039,836A

DATE: 05/09/2002

TIME: 12:50:31

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\05092002\J039836A.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:34 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1